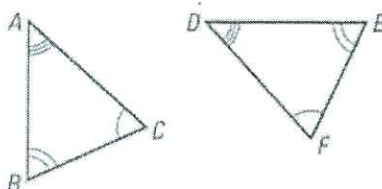


Name: _____ TP: _____

Failure to show work on all problems or use complete sentences will result in a LaSalle.

Watch the following video: <http://tinyurl.com/GEOMCP48>

- 1) Straight from the video. Triangle ABC is congruent to Triangle _____
- 2) Whenever naming congruent shapes you need to follow the _____
- 3) Straight from the video again. Triangle ADC is congruent to Triangle _____
- 4) Knowing what you know now, Triangle BCA is congruent to Triangle _____



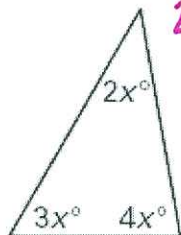
how many
↑ degrees in a triangle?

*For #s 1 - 4, use
your notes to classify
the Δ s by...
sides: Equilateral,
isosceles, scalene
angles: Acute, right,
obtuse

*REMEMBER... if
two angles are \cong ,
the opposite sides are \cong .
If no angles are \cong ,
then no sides are \cong .

Determine the measure of the angles below. YOU MUST SHOW YOUR WORK; either a) write in the angles into the picture, b) list congruence measure, and/or c) show the math that got you to the answer.

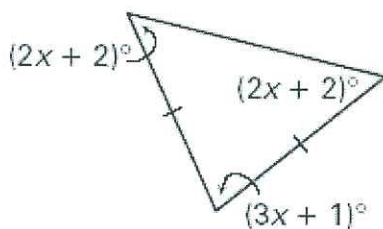
1) Solve for x.



$$2x + 3x + 4x = \boxed{}$$

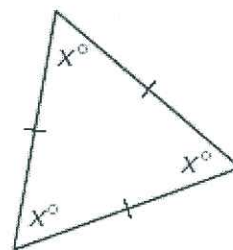
Classified by sides _____
Classified by angles _____

2) Solve for x.



Classified by sides _____
Classified by angles _____

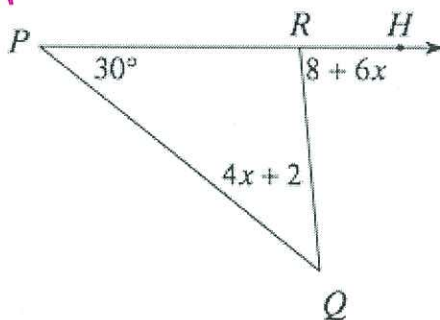
3) Solve for x.



Classified by sides _____
Classified by angles _____

4. Solve for x

*Set $\angle HRQ = \angle RPQ + \angle RQP$



You should approach each problem as an exploration. Problem-solving requires persistence as much as it requires ingenuity. When you get stuck, or solve a problem incorrectly, back up and start over. Keep in mind that you're probably not the only one who is stuck, and that may even include your teacher. **If you have taken the time to think about a problem, you should bring to class a written record of your efforts, not just a blank space in your notebook.** The methods that you use to solve a problem, the corrections that you make in your approach, the means by which you test the validity of your solutions, and your ability to communicate ideas are just as important as getting the correct answer.

Solve all of the problems in your **graph paper notebook neatly labeled!** If you are stuck and cannot answer a question, write at least three complete sentences about the problem and what you do know. Use at least one of the sentence starters below:

- Even though I am stuck, I do know...and I think I should...because...
- I am stuck because I do not know what _____ means. I think it means...so I tried...
- I got this answer but I think it is wrong because...

Remember that you can always use old notes, a dictionary, math textbook, and/or look up topics online!

- Chicago is at the coordinate (2538, 238) and California is located at (121, -7). Mr. Johnson is driving home for the holiday and he wants to stop halfway to take a break. How far will he have to drive until he gets to his resting location?
- The following equation represent a quadratic function: $f(x) = x^2 + x - 20$. Using your knowledge of factoring, where does the function cross the x-axis?

EXTRA CREDIT IF @ CORRECT.

(2538, 238)
 x_1 y_1
 Chicago

(121, -7)
 x_2 y_2
 California

Questions
 ① What formula do we use to find the distance ~~between~~ ~~two~~ ~~points~~ between two points?

② With this, how do we determine how long it takes him to drive HALF WAY?

STAY READY.